

OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)

API NUMBER: 073 26439

Approval Date: 02/13/2019

Expiration Date: 08/13/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 16N Rge: 9W County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 283 2381

Lease Name: CASCADE 14_23-16N-9W

Well No: 4HX

Well will be 283 feet from nearest unit or lease boundary.

Operator Name: DEVON ENERGY PRODUCTION CO LP

Telephone: 4052353611; 4052353

OTC/OCC Number: 20751 0

DEVON ENERGY PRODUCTION CO LP
333 W SHERIDAN AVE
OKLAHOMA CITY, OK 73102-5015

RED LAND FARMS, LLC
JOHN R. RODENBURG, JR. MANAGER
2207 HUNTLEIGH ROAD
SPRINGFIELD IL 62704

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISSISSIPPI LIME	8837	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 297185
242894
682950

Location Exception Orders: 682951

Increased Density Orders: 680520
680519

Pending CD Numbers:

Special Orders:

Total Depth: 18940

Ground Elevation: 1161

Surface Casing: 1999

Depth to base of Treatable Water-Bearing FM: 470

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36100

H. SEE MEMO

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 23 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: SW SE SW SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1732

Depth of Deviation: 7861

Radius of Turn: 477

Direction: 175

Total Length: 10330

Measured Total Depth: 18940

True Vertical Depth: 8888

End Point Location from Lease,
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

1/23/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/23/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

INCREASED DENSITY - 680519

2/13/2019 - G58 - 14-16N-9W
X297185 MSSLM
7 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
7/23/2018

INCREASED DENSITY - 680520

2/13/2019 - G58 - 23-16N-9W
X242894 MSSLM
7 WELLS
DEVON ENERGY PRODUCTION COMPANY, L.P.
7/23/2018

This permit does not address the right of entry or settlement of surface damages.

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

073 26439 CASCADE 14_23-16N-9W 4HX

Category	Description
INTERMEDIATE CASING	1/23/2019 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
LOCATION EXCEPTION - 682951	2/13/2019 - G58 - (I.O.) 14 & 23-16N-9W X297185 MSSLM 14-16N-9W X242894 MSSLM 23-16N-9W X165:10-3-28(C)(2)(B) MAY BE CLOSER THAN 600' TO EXISTING/PROPOSED WELL COMPL. INT. (14-16N-9W) NCT 165' FNL, NCT 0' FSL, NCT 1320' FEL COMPL. INT. (23-16N-9W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL DEVON ENERGY PRODUCTION COMPANY, L.P. 9/13/2018
MEMO	1/23/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 242894	2/13/2019 - G58 - (640) 23-16N-9W EXT 100728 MSSLM
SPACING - 297185	2/13/2019 - G58 - (640) 14-16N-9W EXT OTHERS EXT 65008/100728 MSSLM
SPACING - 682950	2/13/2019 - G58 - (I.O.)(640) 14 & 23-16N-9W EST MULTIUNIT HORIZONTAL WELL X297185 MSSLM 14-16N-9W X242894 MSSLM 23-16N-9W 50% 14-16N-9W 50% 23-16N-9W DEVON ENERGY PRODUCTION COMPANY, L.P. 9/13/2018

OPERATOR: DEVON ENERGY PRODUCTION COMPANY, L.P.

LEASE NAME: CASCADE 14_23-16N-9W

WELL NO. 4HX

GOOD DRILL SITE: YES

KINGFISHER COUNTY, STATE: OK

GROUND ELEVATION: 1161.30' GR. AT STAKE

SURFACE HOLE FOOTAGE: 2381' FEL - 283' FNL

SECTION: 14 TOWNSHIP: T16N RANGE: R9W

BOTTOM HOLE: 23-T16N-R9W, I.M.

ACCESSIBILITY TO LOCATION: FROM NORTH LINE

TOPOGRAPHY & VEGETATION:

LOCATION FELL IN A FIELD

DISTANCE & DIRECTION FROM HWY JCT OR TOWN:

AT THE JCT. OF US-81 AND OK-3, WEST ON OK-3 10.5MI TO
N2740, NORTH 1MI TO E790, WEST 0.4MI, SITE IS SOUTH OF
ROAD

PLEASE NOTE THAT THIS LOCATION WAS STAKED ON THE GROUND UNDER THE SUPERVISION OF A
LICENSED PROFESSIONAL LAND SURVEYOR, BUT ACCURACY OF THIS EXHIBIT IS NOT GUARANTEED.
PLEASE CONTACT CRAFTON TULL PROMPTLY IF ANY INCONSISTENCY IS DETERMINED. GPS DATA IS
OBSERVED FROM RTK-GPS.

NOTE: X AND Y DATA SHOWN HEREON FOR SECTION CORNERS MAY NOT HAVE BEEN SURVEYED ON
THE GROUND, AND FURTHER, DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.

QUARTER SECTION DISTANCES MAY BE ASSUMED FROM A GOVERNMENT SURVEY PLAT OR
ASSUMED AT A PROPORTIONATE DISTANCE FROM OPPOSING SECTION CORNERS, OR
OCCUPATION THEREOF, AND MAY NOT HAVE BEEN MEASURED ON THE GROUND, AND FURTHER,
DOES NOT REPRESENT A TRUE BOUNDARY SURVEY.



073-26439

KINGFISHER COUNTY, OKLAHOMA
2381' FEL - 283' FNL SECTION 14 TOWNSHIP 16N RANGE 9W I.M.

SURFACE HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1963243.5

Y: 316657.9

GPS DATUM: NAD27

LAT: 35.86985742

LONG: -98.12405487

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1930995.0

Y: 316558.5

GPS DATUM: NAD83

LAT: 35.86955876

LONG: -98.12658362

BOTTOM HOLE DATA

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD27

X: 1963248.2

Y: 306298.8

GPS DATUM: NAD27

LAT: 35.84139876

LONG: -98.12399439

STATE PLANE COORDINATES:

ZONE: OK-NORTH NAD83

X: 1931649.0

Y: 306322.5

GPS DATUM: NAD83

LAT: 35.84144132

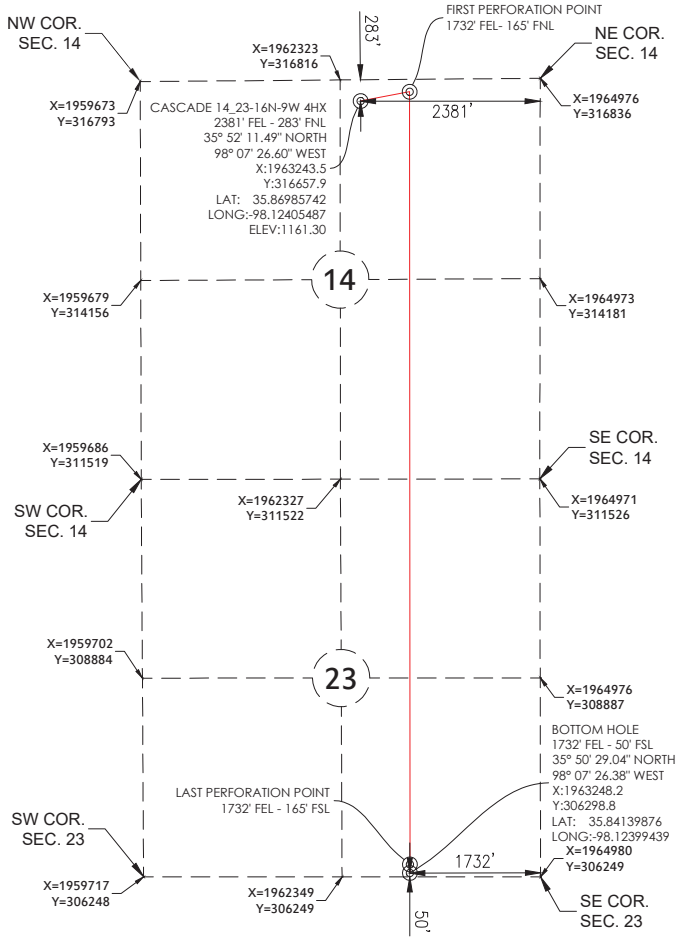
LONG: -98.12433223

BOTTOM HOLE

INFORMATION PROVIDED

BY OPERATOR LISTED.

Date: 2018.12.05 14:01:09-06'00"



GRAPHIC SCALE IN FEET



REVISION	"CASCADE 14_23-16N-9W 4HX"		
	PART OF THE NE/4 OF SECTION 14, T-16-N, R-9-W PROPOSED DRILL SITE KINGFISHER COUNTY, OKLAHOMA		
	SCALE: 1" = 2000'	PLOT DATE: 12-05-2018	DRAWN BY: JJ
			SHEET NO.: 1 OF 6

